

Page 1 of 1

All amounts are calculated in domestic currency.

ALL Vendors PO ID PO17247 Receipt Dates from 6/27/2012 to 6/27/2012

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO17247	1		M303B1.000X03.000 f		6/27/2012	6/27/2012	11.6000	\$48.74	0.0000	0	\$565.33
CAD	No		303 BAR 1" X 3' f		23.0000	DES102		\$565.33	0.0000	0	
			122217								
	2		M303B0.750X1.500 f		6/27/2012	6/27/2012	24.0000	\$19.82	0.0000	0	\$475.61
	No		303 BAR .750" X 1.500"		24.0000	DES102	24'10"	\$475.61	0.0000	0	
			122217								
	3		M303B1.000X1.000 f		6/27/2012	6/27/2012	27.5000	\$12.68	0.0000	0	\$348.77
	No		303 BAR 1" X 1" f		24.0000	DES102		\$348.77	0.0000	0	
			122217								
	4		M304B0.750X2.500 f		6/27/2012	6/27/2012	26.5000	\$23.72	0.0000	0	\$628.49
	No		304 BAR .750 X 2.50 f		24.0000	DES102	26'	\$628.49	0.0000	0	
			122217								
Total Received Quantity: 89.6000 Total Qty to Inspect (PO U/M): 0.0000 Total Reject Quantity: 0.0000 Total Receipt Value: \$2,018.21 Total Balance Due Quantity: 11.4000											

B I L L O F L A D I N G

No: PEC 773607

Ship From:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 9057389033

Ship Date 25Jun12 at 12:06 From PFW

Probill

Via VIM TRANSFER

FOB CONCORD

Frt PREPAID

Route 0- 0 Manifest

Vhcle Trailer

Slp STAN IVERS (905-532-1350)

Sold To: (20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Ship To: (1)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-463673- 1 Your PO # 17247

STAINLESS STEEL FLAT BAR 303CD

.750" X 1.50" X 144.0000"

Heat Number

A11732

Tag No

79732

Quantity

24 FT

PCS

2

Wt LBS

95

MTR

2) Our Order PEC-463673- 2 Your PO # 17247

STAINLESS STEEL SQ BAR 303 STAINLESS

1.00" X 165.0000"

Heat Number

A12008

Tag No

79733

Quantity

27 ' 6.0000 "

PCS

2

Wt LBS

94

MTR

3) Our Order PEC-463673- 3 Your PO # 17247

STAINLESS STEEL FLAT BAR 304-L HRAP

.750" X 2.50" X 156.2500"

Heat Number

252919

Tag No

79734

Quantity

26 ' .5000 "

PCS

2

Wt LBS

166

MTR

4) Our Order PEC-463673- 4 Your PO # 17247

STAINLESS STEEL FLAT BAR 303CD

1.00" X 3.00" X 138.0000"

Heat Number

A11817

Tag No

79735

Quantity

11 ' 6.0000 "

PCS

1

Wt LBS

125

MTR

TOTAL: Tags 4 PCS 7 LBS 480

Heat Number
A11817

*** Chemical Analysis ***

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTÉES IMMEDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

JUN 27 2012

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
TVQ/OST# 1017327981 TQ001 TPS/OST TVH/HST # 140223934 RT0001

DATE

B I L L O F L A D I N G

No: PEC 773607

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 25Jun12 at 12:06 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL (1-4) 4 BDLs GW. 486 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

JUN 27 2012



575 STATE FAIR BLVD.
SOLVAY, NY 13209

Certificate of Test

1

S
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O
COPPER & BRASS SALES INC
22355 WEST ELEVEN MILE ROAD
SOUTHFIELD, MI 48034

S
H
I
P
T
O
COPPER & BRASS SALES
8001 THYSSENKRUPP PARKWAY
NORTHWOOD, OH 43619

OUR ORDER NO.
P5-22725-1-01

DATE
11/02/11

CUSTOMER ORDER NO
5400109941-R02

CUSTOMER REQ NO

DISTRICT
L HINMAN

SHIPPED FROM
SYRACUSE

DESCRIPTION OF MATERIAL

CRU 303 CDA
ASTM-A582-05 AMS-5640U TYPE 2
SIZE 1.500 X .750 FLAT
ASTM-A484-11 ASTM-A320-11

HEAT NO.

A11732
C .054 MN 1.65 P .033 S .190

CHEMICAL ANALYSIS

SI .60 NI 9.17 CR 17.41 MO .38 CU .59

QUANTITY HEAT NO.

1531 # A11732

MECHANICAL PROPERTIES

TENSILE PSI 91,680 YLD.2%PSI 62,980 %ELONG4D 49.2
RED/AREA% 65.0 HARDNESS BHN 204/206

MATERIAL ANNEALED AT 1950 DEG. F. - WATER QUENCHED.
ELECTRIC FURNACE AOD MELTED

cmf
12/06/28

THANK YOU FOR SELECTING A QUALITY PRODUCT MELTED AND MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES LLC LOCATED IN SOLVAY, NY 13209, USA. WE PROVIDE MATERIAL THAT IS FREE FROM MERCURY CONTAMINATION AND RADIATION AT THE TIME OF SHIPMENT. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLDS A CERTIFICATE OF REGISTRATION TO ISO 9001:2008, PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2 ANNEX 1, PARAGRAPH 4.3 AND WORKS UNDER THE GUIDELINES OF NCA 3800 USING QP MANUAL DATED 3/10/11. WE ARE COMPLIANT WITH EU DIRECTIVE 2002/95/EC (ROHS), REACH, EN 10204 2004 3.1, AND DFARS 252-225.7014 ALT1 & 225.7001, 7002 - 3 (b) (1) MATERIAL IS OF NAFTA ORIGIN. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR, IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E604, E572, E1019, AND E1086. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY, AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO U.S. EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THE SPECIFICATION REQUIREMENTS.

CRUCIBLE INDUSTRIES LLC

CERTIFIED BY

William P. Mastroe

WILLIAM MASTROE - MANAGER QUALITY CONTROL & LABS

Page 1 of 1
From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401923078

Part: PO: PEC - 240085

Wgt: 95.000 LB Date: 06/20/2012

James K. Baber



575 STATE FAIR BLVD.
SOLVAY, NY 13209

Certificate of Test

Cert Date: 06/15/12

2

S
O
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T
O
COPPER & BRASS SALES INC
22355 WEST ELEVEN MILE ROAD
SOUTHFIELD, MI 48034

S
H
I
P
T
O
COPPER & BRASS SALES
8001 THYSSENKRUPP PARKWAY
NORTHWOOD, OH 43619

CIL ORDER NO.
P5-26424-2-01

HEAT NO.
A12008

CIL INSIDE SALES REP.

L HINMAN

SHIPPED FROM

SOLVAY, NY USA

CUSTOMER P.O.

5400134219-R02

CUSTOMER PART NO.

SSSQ00047

QUANTITY SHIPPED 1472 LBS.

DESCRIPTION OF MATERIAL

SIZE

1.000 SCSQ

CRU 303 CDA
AMS-5640-U ASTM-A582-5

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO	CU
.048	1.74	.041	.200	.53	9.30	17.52	.41	.40

AS SHIPPED PROPERTIES

HARDNESS
BHN 205/208

AS SHIPPED MATERIAL CONDITION

MATERIAL ANNEALED AT 1950 DEG. F. - WATER QUENCHED.

ADDITIONAL MATERIAL STATEMENTS

ELECTRIC FURNACE AOD MELTED

mf
12/06/28

THANK YOU FOR SELECTING A QUALITY PRODUCT MELTED AND MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES LLC LOCATED IN SOLVAY, NY 13209, USA. WE PROVIDE MATERIAL THAT IS FREE FROM MERCURY CONTAMINATION AND RADIATION AT THE TIME OF SHIPMENT. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLDS A CERTIFICATE OF REGISTRATION TO ISO 9001:2008, PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2 ANNEX 1, PARAGRAPH 4.3 AND WORKS UNDER THE GUIDELINES OF NCA 3800 USING QP MANUAL DATED 3/10/11. WE ARE COMPLIANT WITH EU DIRECTIVE 2002/95/EC (ROHS), REACH, EN 10204 2004 3.1, AND DFARS 252.225.7001, 7002, 7008, 7009. MATERIAL IS OF NAFTA ORIGIN. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR, IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E604, E572, E1019, AND E1086. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY, AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO U.S. EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.

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CRUCIBLE INDUSTRIES LLC

CERTIFIED BY

William P. Mastroe

WILLIAM MASTROE - MANAGER QUALITY CONTROL & LABS

Page 1 of 1

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401923077

Part: PO: PEC - 240085

Wgt: 94.000 LB Date: 06/21/2012

James K. Baber

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2005), 3.1

54-101017
3

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item producer

Avviso di Spedizione: D-VI11005397
Lieferanzeige/Packing list/B.L.

Certificato nr: MEST016033/2011/
Prüfung/Test/Essai

Conferma ordine nr: E111001501
Works/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Oggetto Prove: Descaled Annealed Hotrolled
Prüfungsgut/Item inspected/Prüfung

Tipo di Elaborazione: E+AOD
Erhaltungsart/Working process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'essayeur



Specifiche:
Anforderungen / Requirements / Exigences

VSI 0 304/304L A
AMS-QQ-S-763 B 304/304L A
ASME SA276 2010 S30400/03 A (2)
ASTM A182 2010 S30400/03 A (5)
ASTM A276 2010 S30400/03 A
ASTM A370 2010
MIL-S-862 B/1 304/304L

AMS 5639 H S30400 A
ASME SA182 2010 S30400/03 A (0)
ASME SA320 2010 B8 CLASS1 (3)
ASTM A193 2010A B8 CLASS1
ASTM A314 2008 S30400/03
ASTM A473 2001 S30400/03 (6)
NACE MR0175* 2003 S30400/03 A (7)

AMS 5647 H S30403 A
ASME SA193 2010 B8 CLASS1 (1)
ASME SA479 2010 S30400/03 A (4)
ASTM A262 2010 PRACTICE E
ASTM A320 2010 B8 CLASS1
ASTM A479 2010A S30400/03 A
QQ-S-763 F 304/304L A

(0) SEC.II PT.A 2010 EDITION
(1) SEC.II PT.A 2010 EDITION
(3) SEC.II PT.A 2010 EDITION
(5) For products machined directly from bar refer to ASTM A479.
(7) * ISO 15156-3

(0) For products machined directly from bar refer to ASME SA479.
(2) SEC.II PT.A 2010 EDITION
(4) SEC.II PT.A 2010 EDITION
(6) Chemical analysis only.

Qualità: 304/304L
Werkstoff/Grade/Qualité

Marca: AISI
Markenbezeichnung/Brand/Qualité

Punzonatura: 304/304L
Kennzeichnung/Marking/Markage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descr. du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Loehr. Lot nr. Lot nr.
0220	Flat	2.5000 x 0,7500	484-09	150 / 159	252919		6.032	126400580

TEST ALLO STATO DI FORNITURA											
Test on delivery condition Prüfung auf lieferbarem produkt test a l'état de fourniture Prueba sobre el material así como entregado											
TEST	Provetta/probesta Specimen/Éprouvette Läng. diam. Spess. Brenn. Diam. Dicke With Diam. Thickness Läng. diam. épais mm	°F	Posti. Saggio Proben Längen Éprouvettes 1)	Snervamento Bruchgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Gründelung Reduction of area Striction RA %	Resilienza Kerbschlagwert Impact Value Resilience	Durezza Härte Hardness Dureté HB	
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		30	-	75 115	- 40	- 50	-	140 235	
A	12,5	68	L	46		91	56	65			182

TEST	min	max
A Grain size for ASTM E112		6

Mechanical properties according to ASTM A370.

1)L=longitudinale/länge, T=transversale/quer, Q=Tangenziale/tangentiel

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze / Coulée	min - max 0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	-	-	0,040	0,020 0,030	0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %					
252919	0,019	0,41	1,64	18,27	0,38	0,56	8,12	0,110	0,031	0,023	0,088					

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940°F for 1 h/water.
Micro and macro etch test: OK
Intergranular corrosion test per ASTM A262 pract. E: ok.
Material is DFARS Compliant

Vicenza, 17/02/11 VCO005 (Mod. MCER)	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
--	---	-----------------

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401923074

Part:

PO: PEC - 240085

Wgt: 166.000 LB

Date: 06/21/2012

James K. Baber

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.

2400 TAYLOR STREET WEST

46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**

Hersteller/Item/Usine productio

Avviso di Spedizione: D-VI11005397
Lieferanzeigepacking list/B.L.

Ordine nr: 29499 STOCK CAROL STR
Bestell./Your order/Comanda

Tipo di Elaborazione: E+AOD
Erzeugungsort/Melting process/Mode of elaboration

Certificato nr: MEST016033/2011/
Prüfung/Test/Essai

Conferma ordine nr: E111001501
Works/Our Order/Reti nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Styl de l'usine productio



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'essayeur



Oggetto Prove: Descaled Annealed Hotrolled
Prüfgegenstand/Item Inspected/Finissage

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind lt. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimiscelanza: OK
Verwackelungsprüfung: spektrometrisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks:satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s., 4.3 by TUEV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 17/02/11

VCO009
(Mod. MCER)

Il collaudatore di stabilimento / der Werkssachverständigen / Works Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401923074

Part:

PO: PEC - 240085

Wgt: 166.000 LB

Date: 06/21/2012

James K. Baber



575 STATE FAIR BLVD.
SOLVAY, NY 13209

Certificate of Test

Cert Date: 03/13/12

4

S
O
L
D
COPPER & BRASS SALES INC
22355 WEST ELEVEN MILE ROAD
SOUTHFIELD, MI 48034

S
H
I
P
COPPER & BRASS SALES
8001 THYSENKRUPP PARKWAY
NORTHWOOD, OH 43619

CIL ORDER NO.
P5-24777-1-01

HEAT NO.
A11817

CIL INSIDE SALES REP.
L HINMAN

SHIPPED FROM
SOLVAY, NY USA

CUSTOMER P.O.
5400123224-R02

CUSTOMER PART NO.
SSREC00034

QUANTITY SHIPPED 1654 LBS.

DESCRIPTION OF MATERIAL

CRU 303 CDA
AMS-5640-U ASTM-A320-11
SIZE
3.000 X 1.000 FLAT
ASTM-A484-11 ASTM-A582-5

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO	CU
.066	1.68	.032	.300	.58	8.92	17.34	.47	.38

AS SHIPPED PROPERTIES

HARDNESS
BHN 198/201
TENSILE PSI 77,770
YLD. 2% PSI 47,500
% ELONG4D 48.4
RED/AREA% 61.5

AS SHIPPED MATERIAL CONDITION

MATERIAL ANNEALED AT 1950 DEG. F. - WATER QUENCHED.

ADDITIONAL MATERIAL STATEMENTS

ELECTRIC FURNACE AOD MELTED

12/06/28

THANK YOU FOR SELECTING A QUALITY PRODUCT MELTED AND MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES LLC LOCATED IN SOLVAY, NY 13209, USA. WE PROVIDE MATERIAL THAT IS FREE FROM MERCURY CONTAMINATION AND RADIATION AT THE TIME OF SHIPMENT. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLDS A CERTIFICATE OF REGISTRATION TO ISO 9001:2008, PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2 ANNEX 1, PARAGRAPH 4.3 AND WORKS UNDER THE GUIDELINES OF NCA 3800 USING QP MANUAL DATED 3/10/11. WE ARE COMPLIANT WITH EU DIRECTIVE 2002/95/EC (ROHS), REACH, EN 10204 2004 3.1, AND DFARS 252.225.7001, 7002, 7008, 7009. MATERIAL IS OF NAFTA ORIGIN. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR. IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E804, E572, E1019, AND E1086. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY, AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO U.S. EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.

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CRUCIBLE INDUSTRIES LLC

CERTIFIED BY

William P. Mastroe

WILLIAM MASTROE - MANAGER QUALITY CONTROL & LABS

Page 1 of 1

From: Copper and Brass Sales

Cust: THYSENKRUPP MATERIALS NA - ECAD Del: 2401923524

Part: PO: PEC - 240085

Wgt: 125.000 LB Date: 06/21/2012

James K. Baber



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17247**

Purchase Order Date 6/18/12

PO Print Date 6/20/12

Page Number 1 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name
Vendor Phone 905 669 9444
Vendor Fax 905 738 9033
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
6/20/12

email

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303B1.000X03.000 000	303 BAR 1" X 3'	6/27/12 Yes	23.00 f	Yours ppd	\$50.4348	\$1,160.00
		Special Inst: MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE		11.6			
2	M303B0.750X1.500 000	303 BAR .750" X 1.500"	6/27/12 Yes	✓ 24.00 f	Yours ppd	\$20.5083	\$492.20
		Special Inst: MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE		24'10"			
3	M303B1.000X1.000 000	303 BAR 1" X 1"	6/27/12 Yes	24.00 f	Yours ppd	\$13.1250	\$315.00
		Special Inst: MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE		20.000			

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required **YES** NO

Change Nbr: 2

Change Date: 6/20/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17247**

Purchase Order Date 6/18/12

PO Print Date 6/20/12

Page Number 2 of 2

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

4	M304B0.750X2.500	304 BAR .750 X 2.50	6/27/12 Yes	24.00 f	Yours ppd	\$24.5438	\$589.05
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65

26-50

Handwritten signature/initials

Special Inst:

AISI 304/316 SS BAR OR AISI 304/316 SS
PLATE
PER ASTM A276 OR ASTM A240

NOTE:(303 NOT ACCEPTABLE)

PO Total:

\$2,556.25

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

Change Nbr: 2

Change Date: 6/20/12

Handwritten signature

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required **YES** NO